

## Forestland Interpretations

Forestland interpretations are important to good management. The management of trees begins with an understanding of the soil where they grow or are to be grown. Some soils are very suitable for growing wood crops; others barely support tree cover. Different tree species may vary in production on the same soil.

Forestland interpretations should be used to assist land users in planning, installing, and maintaining forestland management systems.

### *Forest Management and Productivity*

The Forestland Management and Productivity tables presents information about suitable for producing timber for each soil map unit. Management concerns, which include hazard of erosion, equipment use, seedling mortality, and windthrow hazard, are listed by ratings of SLIGHT, MODERATE, or SEVERE. Information on potential productivity includes plant competition, common trees, site index, productivity class, and trees to plant.

### *Management Concerns*

**EROSION HAZARD** - the risk of erosion is slight if the expected soil loss is small; moderate if some measures are needed to control erosion during logging; and severe if intensive management or special equipment and methods are needed to prevent excessive loss of soil.

**EQUIPMENT LIMITATION** - A rating of slight indicates that use of equipment is not limited to a particular kind of equipment or time of year; moderate indicates a short seasonal limitation, or a need for some modification in management of equipment; and severe indicates a seasonal limitation, a need for special equipment or management, or a hazard in the use of equipment.

**SEEDLING MORTALITY** - The ratings are for seedlings from a good planting stock that are properly planted during a period of sufficient rainfall. A rating of slight indicates that the expected mortality of the planted seedlings is less than 25 percent; moderate - 25 to 50 percent; and severe - more than 50 percent.

**WINDTHROW HAZARD** - A rating of slight indicates that trees in wooded areas are not expected to be blown down by commonly occurring winds; moderate - that some trees are blown down during periods of excessive soil wetness and strong winds; and severe that many trees are blown down during periods of excessive soil wetness and moderate or strong winds.

**PLANT COMPETITION** - A rating of slight indicates little or no competition from other plants; moderate indicates that plant competition is expected to hinder the development of the fully stocked stand of desirable trees; and severe means that plant

competition is expected to prevent the establishment of a desirable stand unless the site is intensively prepared, weeded, or otherwise managed for the control of undesirable plants.

**POTENTIAL PRODUCTIVITY** - This is discussed under the ordination class symbol.

**COMMON TREES** - Trees that generally occur on the soil are listed regardless of economic importance.

**SITE INDEX AND PRODUCTIVITY CLASS** - These are discussed under ordination class symbol.

**TREES TO PLANT** - Trees that are suitable for commercial wood production and that are adapted to the soil.

See the National Forestry Manual, Subpart B for criteria used in rating management concerns.

*This subsection includes:*

- **(a) Forest Management (one or two tables)**

Barton County, Missouri  
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber  cu ft/ac	
AkB:				
ASKEW-----	black oak-----	56	43	green ash, shortleaf pine, white oak
	black walnut-----	---	0	
	northern red oak----	73	57	
	white oak-----	53	29	
AsB:				
ASKEW-----	black oak-----	56	43	green ash, shortleaf pine, white oak
	black walnut-----	---	0	
	northern red oak----	73	57	
	white oak-----	53	29	
AsB2:				
ASKEW-----	black oak-----	56	43	green ash, shortleaf pine, white oak
	black walnut-----	---	0	
	northern red oak----	73	57	
	white oak-----	53	29	
BaB:				
BARCO-----	---	---	---	---
BaB2:				
BARCO-----	---	---	---	---
BcB:				
BARCO-----	---	---	---	---
BcB2:				
BARCO-----	---	---	---	---
BdB:				
BARDEN-----	---	---	---	---

Barton County, Missouri  
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber  cu ft/ac	
BdB2: BARDEN-----	---	---	---	---
BoB: BOLIVAR-----	black oak-----	56	43	green ash,
	black walnut-----	---	0	shortleaf pine,
	northern red oak----	73	57	white oak
	white oak-----	53	29	
BoB2: BOLIVAR-----	black oak-----	56	43	green ash,
	black walnut-----	---	0	shortleaf pine,
	northern red oak----	73	57	white oak
	white oak-----	53	29	
Br: BARDEN-----	---	---	---	---
HEPLER-----	common hackberry----	76	0	american sycamore,
	eastern cottonwood--	90	100	green ash
	green ash-----	73	43	
	northern red oak----	67	43	
	pin oak-----	80	57	
RADLEY-----	black walnut-----	79	0	american sycamore,
	common hackberry----	68	0	black walnut,
	green ash-----	73	43	common hackberry,
	pin oak-----	82	57	green ash
	southern red oak----	69	57	

Barton County, Missouri  
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber  cu ft/ac	
BsB:				
BRONAUGH-----	pin oak-----	70	57	pin oak
	white oak-----	55	43	
Ca:				
CARYTOWN-----	---	---	---	---
Ce:				
CHEROKEE-----	---	---	---	---
Cf:				
CLEORA-----	eastern cottonwood--	100	129	american sycamore, black walnut, eastern cottonwood, sweetgum, white ash
	northern red oak----	80	57	
	sweetgum-----	90	100	
CoB:				
COLLINSVILLE-----	---	---	---	---
CoD:				
COLLINSVILLE-----	---	---	---	---
CrD:				
COLLINSVILLE-----	---	---	---	---
CsB:				
CRELDON-----	---	---	---	---
CsB2:				
CRELDON-----	---	---	---	---

Barton County, Missouri  
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber  cu ft/ac	
CtB: CRELDON-----	---	---	---	---
HcB: HECTOR-----	eastern redcedar---- shortleaf pine-----	30 50	29 72	eastern redcedar, loblolly pine, shortleaf pine
HcD: HECTOR-----	eastern redcedar---- shortleaf pine-----	30 50	29 72	eastern redcedar, loblolly pine, shortleaf pine
HeD: HECTOR-----	eastern redcedar---- shortleaf pine-----	30 50	29 72	eastern redcedar, loblolly pine, shortleaf pine
HeE: HECTOR-----	eastern redcedar---- shortleaf pine-----	30 50	29 72	eastern redcedar, loblolly pine, shortleaf pine
Hm: HEPLER-----	common hackberry---- eastern cottonwood-- green ash----- northern red oak---- pin oak-----	76 90 73 67 80	0 100 43 43 57	american sycamore, green ash

Barton County, Missouri  
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber  cu ft/ac	
Hp:				
HEPLER-----	common hackberry----	76	0	american sycamore, green ash
	eastern cottonwood--	90	100	
	green ash-----	73	43	
	northern red oak----	67	43	
	pin oak-----	80	57	
Hr:				
HEPLER-----	common hackberry----	76	0	american sycamore, green ash
	eastern cottonwood--	90	100	
	green ash-----	73	43	
	northern red oak----	67	43	
	pin oak-----	80	57	
RADLEY-----	black walnut-----	79	0	american sycamore, black walnut, common hackberry, green ash
	common hackberry----	68	0	
	green ash-----	73	43	
	pin oak-----	82	57	
	southern red oak----	69	57	
KeC:				
KEENO-----	---	---	---	---
KnC:				
KEENO-----	---	---	---	---

Barton County, Missouri  
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber  cu ft/ac	
La:				
LANTON-----	common hackberry----	70	0	black walnut, bur
	eastern cottonwood--	85	86	oak, eastern
	green ash-----	70	43	cottonwood, green
	northern red oak----	60	43	ash, northern red
	pecan-----	60	0	oak
	pin oak-----	80	57	
Ld:				
LANTON-----	common hackberry----	70	0	black walnut, bur
	eastern cottonwood--	85	86	oak, eastern
	green ash-----	70	43	cottonwood, green
	northern red oak----	60	43	ash, northern red
	pecan-----	60	0	oak
	pin oak-----	80	57	
VERDIGRIS-----	black walnut-----	69	0	american sycamore,
	common hackberry----	69	0	black walnut,
	eastern cottonwood--	87	100	eastern
	green ash-----	69	43	cottonwood, green
	pin oak-----	75	57	ash, pin oak
	shagbark hickory----	---	0	
	silver maple-----	---	0	
	white oak-----	56	43	
LeB:				
LEBANON-----	black oak-----	---	0	northern red oak,
	northern red oak----	---	0	scarlet oak,
	shortleaf pine-----	56	86	shortleaf pine,
	white oak-----	55	43	white oak



Barton County, Missouri  
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber  cu ft/ac	
LiB: LIBERAL-----	---	---	---	---
LmC2: LIBERAL-----	---	---	---	---
LoD: LIBERAL-----	---	---	---	---
BARCO-----	---	---	---	---
COLLINSVILLE-----	---	---	---	---
Mp: KANIMA-----	---	---	---	---
NeB: NEWTONIA-----	---	---	---	---
NhC: NIXA-----	black oak----- black walnut----- eastern redcedar---- shortleaf pine----- white oak-----	63 --- 40 60 60	43 0 43 86 43	eastern redcedar, loblolly pine, shortleaf pine
PaA: PARSONS-----	---	---	---	---
PaB: PARSONS-----	---	---	---	---

Barton County, Missouri  
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
PaB2: PARSONS-----	---	---	---	---
Rv: VERDIGRIS-----	black walnut----- common hackberry---- eastern cottonwood-- green ash----- pin oak----- shagbark hickory---- silver maple----- white oak-----	69 69 87 69 75 --- --- 56	0 0 100 43 57 0 0 43	american sycamore, black walnut, eastern cottonwood, green ash, pin oak
RADLEY-----	black walnut----- common hackberry---- green ash----- pin oak----- southern red oak----	79 68 73 82 69	0 0 43 57 57	american sycamore, black walnut, common hackberry, green ash
SuA: SUMMIT-----	---	---	---	---
SuB: SUMMIT-----	---	---	---	---
W: WATER-----	---	---	---	---